ADVANCED BIOSYSTEMS

Supporting Information

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Zwitterionic Polymer Coating Suppresses Microglial Encapsulation to Neural Implants In Vitro and In Vivo

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Supporting Information

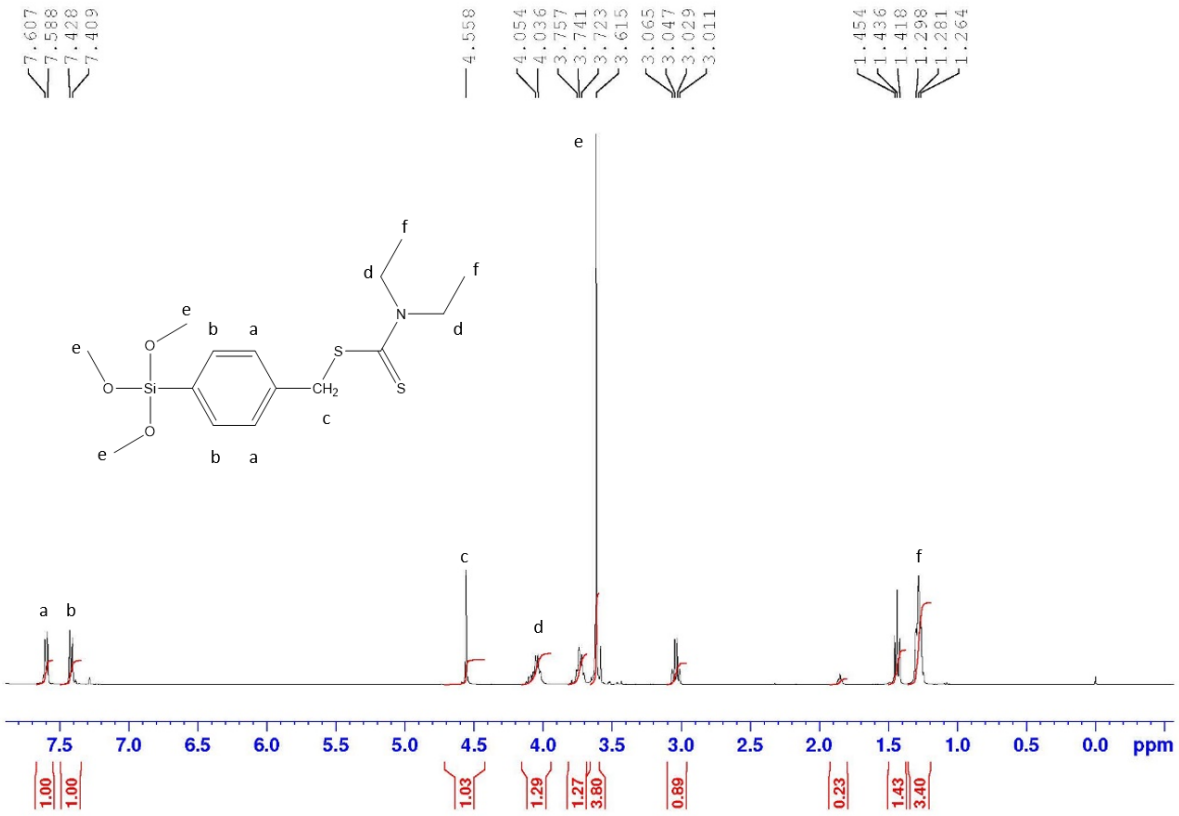

Figure S1. ^{1}H NMR spectrum of SBDC. CD_3Cl, 40MHz, δ ppm 7.598(2H, d, J = 7.6Hz), 7.419(2H, d, J = 7.6Hz), 4.558(2H, s), 4.045(4H, d, J = 7.2Hz), 3.615(9H, s), 1.281(4H, t, J = 6.8Hz). All corresponding hydrogen peaks are labeled with letters.

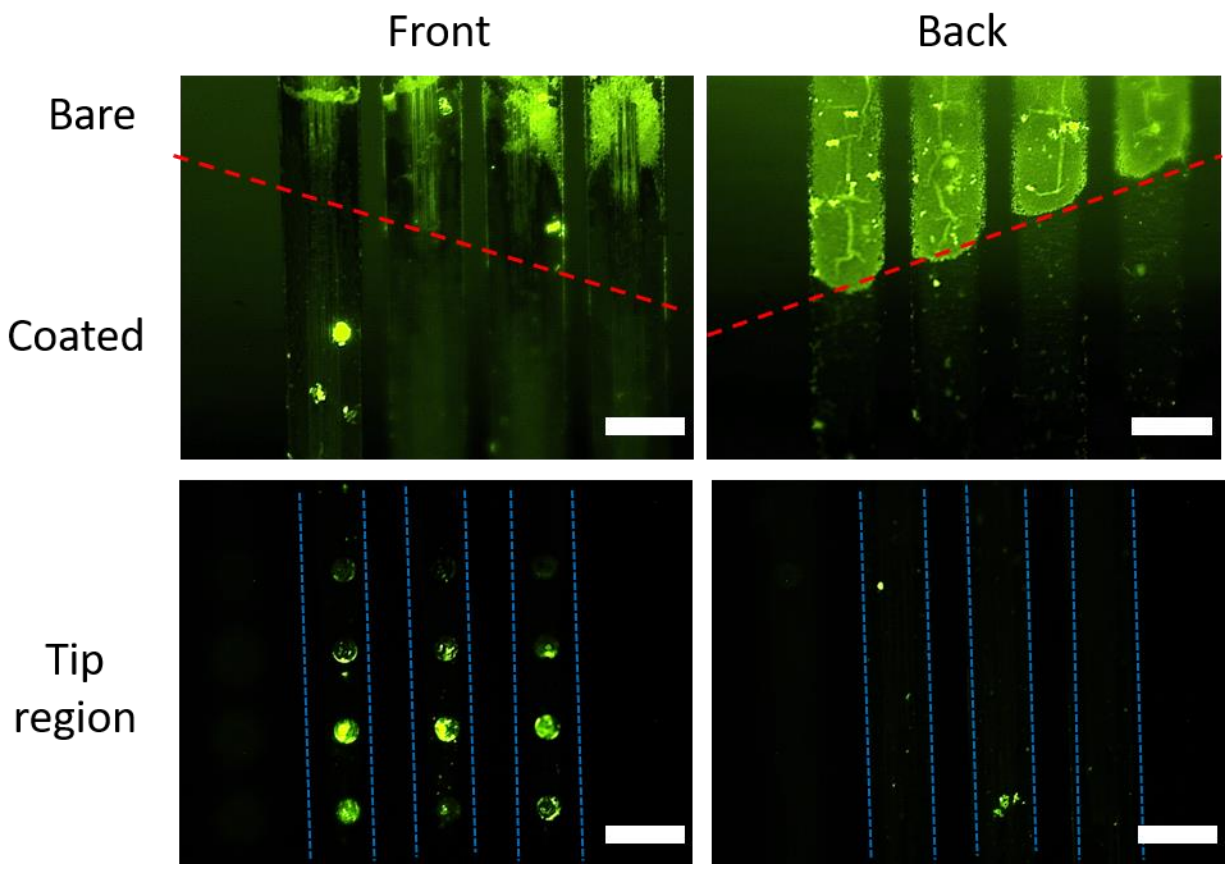

Figure S2. Fluorescence images of PSBMA-coated silicon probes after albumin protein adsorption test. The albumin is fluorescently tagged in green. Top row: upper regions of the probe with red dash line marking the boundary between the coated and uncoated probe portion. Bottom row: tip region of the probes. The circular metal electrode sites were not coated by PSBMA and consequently green due to adsorption of the protein. The rest of the surface and the back of the probe had minimum fluorescence with very few speckles of green suggesting coating uniformity. Scale bar=55µm.

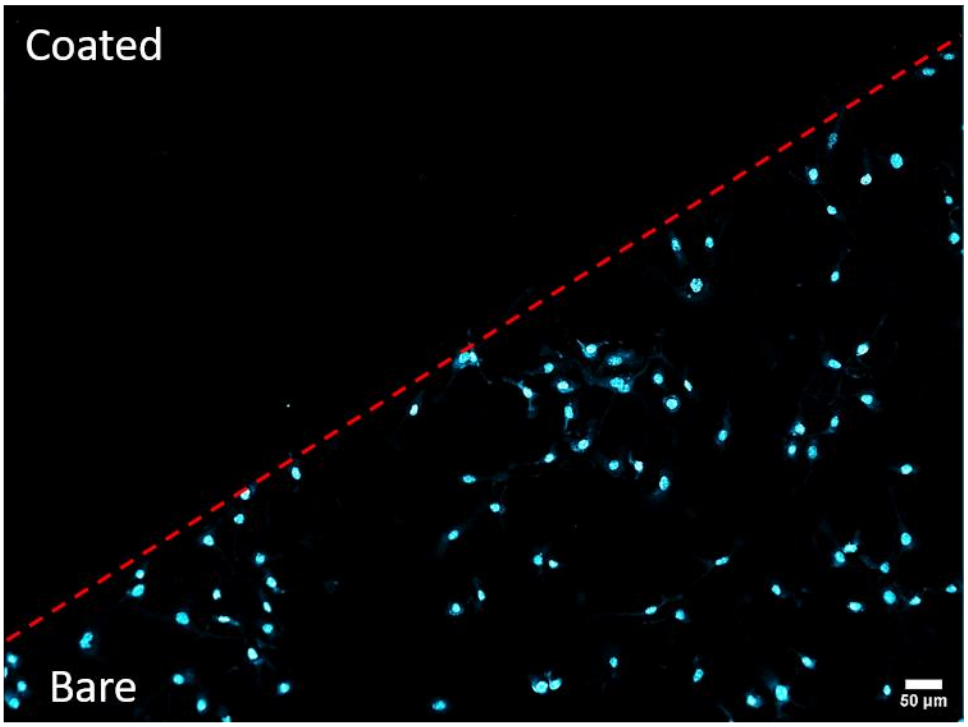

Figure S3. HAPI cell adhesion assay on half coated Si wafer. The red line indicates the boundary of PSBMA-coated and bare side of the wafer. Cells are stained with DAPI (cyan). Scale bar=50µm.